Arnab Halder

List of Publications by Year
in descending order

34 papers	1,106 citations	430874 18 h-index	526287 27 g-index
37 all docs	37 docs citations	37 times ranked	1797 citing authors

#	Article	IF	Citations
1	Full-bandwidth electrophysiology of seizures and epileptiform activity enabled by flexible graphene microtransistor depth neural probes. Nature Nanotechnology, 2022, 17, 301-309.	31.5	49
2	Sensory development for heavy metal detection: A review on translation from conventional analysis to field-portable sensor. Trends in Food Science and Technology, 2021, 109, 674-689.	15.1	62
3	A multivalent aptamer-based electrochemical biosensor for biomarker detection in urinary tract infection. Electrochimica Acta, 2021, 389, 138644.	5.2	12
4	Amino Acid Assisted Oneâ€Pot Green Synthesis of Nâ€Doped 3D Graphene for Ultrasensitive Neurochemical Sensing. ChemistrySelect, 2020, 5, 13951-13956.	1.5	1
5	Freeâ€Standing NiO Nanosheets as Nonâ€Enzymatic Electrochemical Sensors. ChemistrySelect, 2020, 5, 2424-2429.	1.5	7
6	Electrochemical pyrolytic carbon resonators for mass sensing on electrodeposited polymers. Micro and Nano Engineering, 2019, 2, 64-69.	2.9	7
7	Two-dimensional graphene paper supported flexible enzymatic fuel cells. Nanoscale Advances, 2019, 1, 2562-2570.	4.6	26
8	Biocompatible propulsion for biomedical micro/nano robotics. Biosensors and Bioelectronics, 2019, 139, 111334.	10.1	67
9	Nanoporous hybrid CuO/ZnO/carbon papers used as ultrasensitive non-enzymatic electrochemical sensors. RSC Advances, 2019, 9, 41886-41892.	3.6	7
10	Dispersive solid-phase imprinting of proteins for the production of plastic antibodies. Chemical Communications, 2018, 54, 3355-3358.	4.1	18
11	A facile molecularly imprinted polymer-based fluorometric assay for detection of histamine. RSC Advances, 2018, 8, 2365-2372.	3.6	26
12	Engineering two-dimensional layered nanomaterials for wearable biomedical sensors and power devices. Materials Chemistry Frontiers, 2018, 2, 1944-1986.	5.9	59
13	Fluorescent Nanosensor Based on Molecularly Imprinted Polymers Coated on Graphene Quantum Dots for Fast Detection of Antibiotics. Biosensors, 2018, 8, 82.	4.7	44
14	Molecularly imprinted nanoparticles for inhibiting ribonuclease in reverse transcriptase polymerase chain reaction. Analyst, The, 2018, 143, 2750-2754.	3.5	7
15	One-Pot Green Synthesis of Biocompatible Graphene Quantum Dots and Their Cell Uptake Studies. ACS Applied Bio Materials, 2018, 1, 452-461.	4.6	52
16	3D Carbon Microelectrodes with Bio-Functionalized Graphene for Electrochemical Biosensing. Biosensors, 2018, 8, 70.	4.7	22
17	Interlocked grapheneâ€“Prussian blue hybrid composites enable multifunctional electrochemical applications. Biosensors and Bioelectronics, 2017, 89, 570-577.	10.1	62
18	Ultralight, Flexible, and Semi-Transparent Metal Oxide Papers for Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 3922-3930.	8.0	17

#	Article	IF	Citations
19	Graphene directed architecture of fine engineered nanostructures with electrochemical applications. Electrochimica Acta, 2017, 242, 202-218.	5.2	24
20	Sulfur ligand mediated electrochemistry of gold surfaces and nanoparticles: What, how, and why. Current Opinion in Electrochemistry, 2017, 1, 7-15.	4.8	31
21	Freestanding and flexible graphene papers as bioelectrochemical cathode for selective and efficient CO2 conversion. Scientific Reports, 2017, 7, 9107.	3.3	55
22	Electroactive and biocompatible functionalization of graphene for the development of biosensing platforms. Biosensors and Bioelectronics, 2017, 87, 764-771.	10.1	47
23	Graphene papers: smart architecture and specific functionalization for biomimetics, electrocatalytic sensing and energy storage. Materials Chemistry Frontiers, 2017, 1, 37-60.	5.9	67
24	Gold surfaces and nanoparticles are protected by Au(0)â€“thiyl species and are destroyed when Au(I)â€“thiolates form. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1424-33.	7.1	116
25	Enhanced microbial electrosynthesis with three-dimensional graphene functionalized cathodes fabricated via solvothermal synthesis. Electrochimica Acta, 2016, 217, 117-122.	5.2	112
26	Free-standing and flexible graphene papers as disposable non-enzymatic electrochemical sensors. Bioelectrochemistry, 2016, 109, 87-94.	4.6	66
27	Graphene-Metal Oxide Hybrid Nanostructured Materials for Electrocatalytic Sensing and Sustainable Energy Storage. Reviews in Advanced Sciences and Engineering, 2016, 5, 4-31.	0.6	8
28	Bioengineering of Solution Processed Graphene for the Development of Ultrasensitive Flexible Biosensing Platform. ECS Meeting Abstracts, 2016, , .	0.0	0
29	Development of novel polymeric sensors for taste sensing: Electronic tongue. , 2013, , .		4
30	Taste sensing with HDTC modified polyvinyl alcohol-polyacrylic acid membrane. , 2012, , .		2
31	Discrimination of tea quality by polymer membrane electrode based potentiometric taste sensor. , 2012, , .		4
32	Polymer membrane electrode based potentiometric taste sensor: A new sensor to distinguish five basic tastes. , 2012, , .		5
33	Electrocatalytic Applications of Grapheneâ€“Metal Oxide Nanohybrid Materials. , 0, , .		17
34	Graphene-Paper Based Electrochemical Sensors. , 0, , .		1